



Patent  
Attorney's Docket No. 005950-656

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of )  
)  
Russell R. KRUG et al. ) Group Art Unit: 1764  
)  
Application No.: 09/758,667 ) Examiner: Bekir L. Yildirim  
)  
Filed: January 11, 2001 ) Confirmation No.: 9538  
)  
For: A PROCESS FOR MAKING A LUBE )  
BASE STOCK FROM A LOWER )  
MOLECULAR WEIGHT FEEDSTOCK )  
IN A CATALYTIC DISTILLATION )  
UNIT )

**AMENDMENT/REPLY TRANSMITTAL LETTER**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

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APR 26 2003

Enclosed is a reply for the above-identified patent application.

- ☐ A Petition for Extension of Time is also enclosed.
- ☐ A Terminal Disclaimer and the ☐ \$55.00 (2814) ☐ \$110.00 (1814) fee due under 37 C.F.R. § 1.20(d) are also enclosed.
- ☒ Also enclosed is/are Response Under 37 C.F.R. § 1.111.
- ☐ Small entity status is hereby claimed.
- ☐ Applicant(s) request continued examination under 37 C.F.R. § 1.114 and enclose the ☐ \$375.00 (2801) ☐ \$750.00 (1801) fee due under 37 C.F.R. § 1.17(e).
- ☐ Applicant(s) previously submitted \_\_\_, on \_\_\_, for which continued examination is requested.
- ☐ Applicant(s) request suspension of action by the Office until at least \_\_\_, which does not exceed three months from the filing of this RCE, in accordance with 37 C.F.R. § 1.103(c). The required fee under 37 C.F.R. § 1.17(i) is enclosed.
- ☐ A Request for Entry and Consideration of Submission under 37 C.F.R. § 1.129(a) (1809/2809) is also enclosed.
- ☒ No additional claim fee is required.

☐ An additional claim fee is required, and is calculated as shown below:

AMENDED CLAIMS					
	NO. OF CLAIMS	HIGHEST NO. OF CLAIMS PREVIOUSLY PAID FOR	EXTRA CLAIMS	RATE	ADDT'L FEE
Total Claims		MINUS =		× \$18.00 (1202) =	
Independent Claims		MINUS =		× \$84.00 (1201) =	
If Amendment adds multiple dependent claims, add \$280.00 (1203)					
Total Amendment Fee					
If small entity status is claimed, subtract 50% of Total Amendment Fee					
<b>TOTAL ADDITIONAL FEE DUE FOR THIS AMENDMENT</b>					

☐ A claim fee in the amount of \$\_\_\_\_\_ is enclosed.

☐ Charge \$\_\_\_\_\_ to Deposit Account No. 02-4800.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17, 1.20(d) and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By: Melissa M. Hayworth  
Melissa M. Hayworth  
Registration No. 45,774

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620

Date: April 24, 2003



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Russell R. KRUG et al.	)	Group Art Unit: 1764
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Application No.: 09/758,667	)	Examiner: Bekir L. Yildirim
	)	
Filed: January 11, 2001	)	Confirmation No.: 9538
	)	
For: A Process for Making a Lube Base Stock	)	
from a Lower Molecular Weight	)	
Feedstock in a Catalytic Distillation Unit	)	
	)	

RESPONSE UNDER 37 C.F.R. § 1.111

Assistant Commissioner for Patents  
Washington, D.C. 20231

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TC 1700

Sir:

In complete response to the Office Action of January 24, 2003, Applicants submit the following response.

***Status of the Claims***

Claims 1 – 21 are pending, with claims 1, 20, and 21 being independent. Applicants respectfully request the Examiner to reconsider and withdraw the outstanding rejections in view of the following remarks.

***The Present Invention***

The presently claimed invention relates to processes for making a lube base stock. In one embodiment the process comprises contacting an olefinic feedstock with boiling points greater than 180°F, with an oligomerization catalyst in a catalytic distillation unit to produce a product with a higher number average molecular weight than the olefinic feedstock; and separating the product in the catalyst distillation unit into a light by-product fraction and a heavy product fraction, wherein the heavy product fraction comprises hydrocarbons in the lube base stock range.